CHAPTER III
METHODOLOGY

The present chapter describes the method of study, including sampling, test for collecting data of sports specific personality and socio economic status of sports participants of Mangalore University and statistical employed for analyzing data. Chapter includes selection of subjects, selection of tests used in the study along with their reliability and validity. The research procedure has been systematically presented in this chapter under the following headings.

Research method

For conducting any research, it becomes inevitable to select appropriate research method. Depending upon the objectives of the study the descriptive survey method was selected in this study. The intention in employing the research strategy may be either to find out the conditions of specific events.

Population

In this study male and female team and individual sports person who participate in Mangalore University Inter collegiate tournaments and who represented Mangalore University in different events are served as population of the presents study.

Sample

The sample for the present study includes team and individual sports person who participated in Mangalore University Inter collegiate tournaments and who represented Mangalore University in various team and individual sports events from the year 2013-14 to
2015-16. The sample includes male and female team and individual sports persons.

**Used tools**

The success of research is highly dependent upon the selected tools for the data collection. In this study investigator has employed questionnaires of sports specific personality and socio economic scale. The sports specific personality includes seven variables such as sociability, dominance, Extroversion, Conventionality, self-concept, Mental Toughness, Emotional Stability. Questionnaires are personally administered by researcher. In the present investigation the following tools are used for the data collection.

2. Socio Economic Status Scale constructed by Rajbir Singh, Radhey Shyam and Sathish Kumar.

**Sports specific personality test**

In the study to know the specific personality of the sports participants of Mangalore University the scholar used Sports Specific Personality Test (SSPT) constructed by Agya Jit Singh and H. S. Cheema. The standardized questionnaire is supplied by the psychological corporation, Agra. Following personality variables were tested in the sports specific personality test.

**Sociability**

Sociability mean a sociable person is war, good natured, easy going, ready to cooperate, attentive to people, kindly, trustful, soft hearted adaptable and warm hearted. It is an important trait for athletes in that it implies being generous to team mates and that criticism from others
will accepted in good faith.

**Dominance**

It denotes self-assertiveness, self-assurance, hardness and toughness, un-conventionality and a competitive aggressiveness, persuading, seducing or commanding others. Dominance is characterized by desire to influence and control ones environment and other people through subduing, persuading, seducing or commanding them.

**Extraversion**

Extraversion means outgoing, uninhibited, impulsive, involved in group activities, sociable, being friendly, craving for excitement, and having many social contacts. They stick their necks out and take chances, act on the spur of the moment, are optimistic, aggressive, laugh a great deal, lose their temper easily and are unavail to keep their feeling under control.

**Self-concept**

It reflects to several kinds of identifiable personality traits such as self-confidence, self-assurance, self-assertiveness, self-esteem, self-regard, self-consistency, self-enhancement. Self-respect. What a person perceives of himself and his achievement in life is called self-concept. Self-confidence and self-assurance in athletes are expressed in behavior s cheerful, resilience, toughness, placidity, experience, carelessness, vigor, energy, fearlessness and self-security.
**Conventionality**

Conventionality denotes behavior such as being alert to proper way of doing things, being very practical, narrowing of interests to immediate problems, being realistic, dependable, sound, being concerned and worried about issues. Many researchers have found athletes to be highly conservative and conventional in their responses to social situations.

**Mental toughness**

It indicates that mentally tough athletes can take rough handling, they are not easily upset about losing, playing badly or being spoken to harshly, can accept strong criticism without being hurt and do not need too much encouragement from their coaches. This is also manifested in realistic, self-reliant, and cynical behavior. Cattell (1960) describes the tough minded individual as one who is emotionally mature, is independent in action and thought, is hard and realistic in his appraisal of himself and the world can overrule his feelings and does not show anxiety, about events occurring about him.

**Emotional stability**

It is characterized by maturity quite realism absence of neurotic fatigue. Placidness, unaffectedness, optimism and self-discipline. While on the other hand, emotional instability is characterized by low tolerance of frustration, immaturity, unstableness, high excitability, evasiveness, wordiness, and neurotic fatigability. There is a high level of anxiety and apprehensiveness together with diminished activity, lowered self-confidence and a general loss of initiative.

**Scale Format and Description**
There were 100 statements in the sports specific personality scale. Each statement has four options like always, often, sometime and never. All seven dimensions have positive and negative statements. For sociability dimension fifteen statements were given in which eleven positive statements and four negative statements.

For dominance dimension ten positive statement and five negative statements were given. For extroversion thirteen statements in which eight positive and five negative statements. For conventionality nine positive and five negative statements given.

Self-concept dimension has ten and four statements positive and negative respectively. For mental toughness fifteen statements in which eight positive and seven negative statements. Emotional stability dimension has twelve positive and three negative statements.

**Scoring procedure**

The test should be scored as such:

<table>
<thead>
<tr>
<th>Statement Type</th>
<th>Always</th>
<th>Often</th>
<th>Sometimes</th>
<th>Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive Items</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Negative items</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>
The following is the sequence of the items in each dimension of the personality test.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Dimensions</th>
<th>Condition</th>
<th>Item wise Serial Numbers</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>Sociability</td>
<td>Positive</td>
<td>1, 8, 15, 22, 36, 57, 64, 71, 85, 92, 99</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Negative</td>
<td>29, 43, 50, 78</td>
<td>04</td>
</tr>
<tr>
<td>I.</td>
<td>Dominance</td>
<td>Positive</td>
<td>2, 9, 23, 30, 37, 44, 51, 72, 79, 93</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Negative</td>
<td>16, 58, 65, 86, 100</td>
<td>05</td>
</tr>
<tr>
<td>II.</td>
<td>Extroversion</td>
<td>Positive</td>
<td>10, 17, 24, 31, 38, 66, 73, 80</td>
<td>08</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Negative</td>
<td>3, 45, 52, 59, 87</td>
<td>05</td>
</tr>
<tr>
<td>III.</td>
<td>Conventionality</td>
<td>Positive</td>
<td>4, 11, 18, 32, 39, 53, 74, 81, 88</td>
<td>09</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Negative</td>
<td>25, 46, 60, 67</td>
<td>04</td>
</tr>
<tr>
<td>IV.</td>
<td>Self-Concept</td>
<td>Positive</td>
<td>12, 19, 26, 33, 40, 61, 68, 82, 89, 96</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Negative</td>
<td>5, 47, 54, 75</td>
<td>04</td>
</tr>
<tr>
<td>V.</td>
<td>Mental Toughness</td>
<td>Positive</td>
<td>6, 13, 20, 34, 69, 83, 90, 95</td>
<td>08</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Negative</td>
<td>27, 41, 48, 55, 62, 76, 97</td>
<td>07</td>
</tr>
<tr>
<td>VI.</td>
<td>Emotional Stability</td>
<td>Positive</td>
<td>7, 14, 21, 28, 35, 42, 49, 56, 77, 84, 91, 94</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Negative</td>
<td>63, 70, 98</td>
<td>03</td>
</tr>
</tbody>
</table>

**TOTAL** 100

**Reliability of the test**

The reliability of a measuring instrument is a much important aspect of its usefulness. The reliability of a test refers to the Consistency of scores obtained by the same individuals on different occasions or with different sets of equivalent items. It measures consistently and obtains the same scores. Reliability indicates how accurately the test measures what it does measure about.

The sports specific personality test has test re test and split half reliability of 0.86 and
0.90 respectively. The sub dimension wise test re-test and split half reliability for sociability, dominance, extraversion, self-concept, conventionality, mental toughness and emotional stability are 0.90 and 0.86, 0.84 and 0.76, 0.69 and 0.61, 0.93 and 0.81, 0.82 and 0.78, 0.87 and 0.90, 0.58 and 0.61 respectively.

**Validity**

The test has good level of concurrent and construct validity.

**Socio economic status scale**

In the study to know the social status of the sports participants of Mangalore University the Socio Economic Status Scale constructed by Rajbir Singh, Radhey Shyam and Sathish Kumar was used.

**Scale Format and Description**

There are 25 statements in the scale. One Item each for caste and occupation. Two items for family (type and size), one item for educational qualification of self and other members. Four items related to monetary matters (i.e. income, savings, income tax and deposits). One item was kept for entertainment expenses per month while four items relate to housing (type and size). Item No. 15 (real estate) has been divided into three parts (A) agricultural land holding, (B) residential plots and their sizes, (C) shops and their locations. In order to cover life areas nine items relating to social, religious, political and academic participation have been included Item no. 25 relates to household possessions (material and livestock). Thus the items in the scale are related to caste / class, occupation, family, education, income, housing, relational network and material and livestock possessions. Score on item No. 5, 7, 14, 15 and 25 are additive whereas on rest of the items only single score is given.
**Scoring procedure for Socio economic status scale**

**Scoring key**

**Item 1.**

<table>
<thead>
<tr>
<th>General Category</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Backward Classes</td>
<td>= 2</td>
</tr>
<tr>
<td>Scheduled Caste / Scheduled Tribe</td>
<td>= 1</td>
</tr>
</tbody>
</table>

**Item 2.**

<table>
<thead>
<tr>
<th>Dockers, Professionals, Gazetted Officers, Industrialist</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal (Colleges), Professors</td>
<td>= 5</td>
</tr>
<tr>
<td>Lecturer, Headmaster, Principal (School)</td>
<td>= 4</td>
</tr>
<tr>
<td>Serviceman, Teacher, Deference Personnel</td>
<td>= 3</td>
</tr>
<tr>
<td>Farmer, JBT Teacher, Shopkeeper</td>
<td>= 2</td>
</tr>
<tr>
<td>Housewife and Labourer</td>
<td>= 1</td>
</tr>
</tbody>
</table>

**Item 3.**

<table>
<thead>
<tr>
<th>Joint-Family</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nuclear Family</td>
<td>= 1</td>
</tr>
</tbody>
</table>

**Item 4.**

<table>
<thead>
<tr>
<th>More than 10</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - 10</td>
<td>= 3</td>
</tr>
<tr>
<td>3 - 5</td>
<td>= 2</td>
</tr>
<tr>
<td>2</td>
<td>= 1</td>
</tr>
<tr>
<td>1</td>
<td>= 0</td>
</tr>
</tbody>
</table>

**Item 5.**

<table>
<thead>
<tr>
<th>Ph.D.</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post-Graduation</td>
<td>= 6</td>
</tr>
<tr>
<td>Graduation</td>
<td>= 5</td>
</tr>
</tbody>
</table>
12th Pass = 4
10th Pass = 3
8th Pass = 2
5th Pass = 1
Illiterate = 0

Note: The Number of endorsements are to be added for self and close kins (given in scale).

Item 6.

More than Rs. 50,000 = 6
Rs. 30,000-50,000 = 5
Rs. 20,000-30,000 = 4
Rs. 10,000-20,000 = 3
Rs. 5,000-10,000 = 2
Less than Rs. 5,000 = 1

Item 7.

Yes = 1
No = 0

1x The No. of Persons who pay the Income Tax

Item 8.

More than Rs. 50,000 = 10
Rs. 30,000-50,000 = 9
Rs. 20,000-30,000 = 8
Rs. 10,000-20,000 = 7
Rs. 5,000-10,000 = 6
Rs. 4,000-5,000 = 5
<table>
<thead>
<tr>
<th>Range</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rs. 3,000-4,000</td>
<td>4</td>
</tr>
<tr>
<td>Rs. 2,000-3,000</td>
<td>3</td>
</tr>
<tr>
<td>Rs. 1,000-2,000</td>
<td>2</td>
</tr>
<tr>
<td>Less than Rs. 1,000</td>
<td>1</td>
</tr>
<tr>
<td>Nil</td>
<td>0</td>
</tr>
</tbody>
</table>

**Item No 9.**

<table>
<thead>
<tr>
<th>Range</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>More than Rs. 10,00,000</td>
<td>9</td>
</tr>
<tr>
<td>Rs. 5,00,000-10,00,000</td>
<td>8</td>
</tr>
<tr>
<td>Rs. 2,00,000-5,00,000</td>
<td>7</td>
</tr>
<tr>
<td>Rs. 1,00,000-2,00,000</td>
<td>6</td>
</tr>
<tr>
<td>Rs. 50,000-1,00,000</td>
<td>5</td>
</tr>
<tr>
<td>Rs. 20,000-50,000</td>
<td>4</td>
</tr>
<tr>
<td>Rs. 10,000-20,000</td>
<td>3</td>
</tr>
<tr>
<td>Rs. 5,000-10,000</td>
<td>2</td>
</tr>
<tr>
<td>Less than Rs. 5,000</td>
<td>1</td>
</tr>
<tr>
<td>Nil</td>
<td>0</td>
</tr>
</tbody>
</table>

**Item 10**

<table>
<thead>
<tr>
<th>Range</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rs. 5,000 and above</td>
<td>7</td>
</tr>
<tr>
<td>Rs. 2,000-5,000</td>
<td>6</td>
</tr>
<tr>
<td>Rs. 1,000-2,000</td>
<td>5</td>
</tr>
<tr>
<td>Rs 500-1,000</td>
<td>4</td>
</tr>
<tr>
<td>Rs. 300-5000</td>
<td>3</td>
</tr>
<tr>
<td>Rs. 100-300</td>
<td>2</td>
</tr>
<tr>
<td>Upto Rs. – 100</td>
<td>1</td>
</tr>
<tr>
<td>Nil</td>
<td>0</td>
</tr>
</tbody>
</table>

**Item 11.**
Item 12.

- Big House (6 or more rooms with large court yard) = 4
- Medium size (three-five rooms & small court yard) = 3
- Small house (two rooms) = 2
- Very small house (one room) = 1

Item 13.

- Metropolitan city = 4
- City (Municipal) = 3
- Town = 2
- Village = 1

Item 14.

(i) Yes = 1
   No = 0

If yes then

(ii) Big house (6 or more rooms with large court yard) = 4
     Medium size (three-five rooms with small court yard) = 3
     Small house (two rooms) = 2
     Very small house (one room) = 1

(iii) Metropolitan city = 4
     City (Municipal) = 3
     Town = 2
     Village = 1

Scores on, (i), (ii) and ~ii) are to be added where applicable.
Item 15.

(A) Land holding (in Acres)

More than 10 = 3

5 - 10 = 2

2 - 5 = 1

0 = 0

(B) Residential plots

500mtr\(^2\) and above = 5

More than 5 = 3

300mtr\(^2\) - 500mtr\(^2\) = 4

200 mtr\(^2\) - 300mtr\(^2\) = 3

100 mtr\(^2\) - 200 mtr\(^2\) = 2

Less than 100 mtr\(^2\) = 1

Residential Plots x size of plots

(C) (i) Yes = 1

No = 0

(ii) No. of Shops x 1

(iii) Metropolitan = 4

City = 3

Town = 2

Village = 1

(iv) Main Market = 2

Other place = 1

Total Score on 15 C = ii + iii + iv

Total Score on item No. 15 = Score on A + B + C

For item No. 16 Yes = 2, No = 0

For item No. 17 Yes = 3, No = 0
From Item No. t8 to 24 a soar of 1 to be given for ‘Yes’ and 0 for ‘No’

Item 25.

A  Item 1 – 4  Score 2 x No. of items
    Item 5, Score 3 for luxary 2 for non-luxary cars x No. of Cars
    Item 6 - 13  Score 1 x No. of items

B  Item 1 - 4  Scores 3 x No. of items
    Item 5 - 10 & 20  Score 2 x No. of items
    Item 11 - 19 & 21 - 22  Score 1 x No. of items

C  Ornaments  Score
    Diamond  4 x No. of items
    Gold  3 x No of items
    Silver  2 x No of items
    Any Other  1 x No of items

D  Buffalo  3 x Noof Buffaloes
    Cow, bullocks  2 x Noof Cows, bullocks, camel
    Any other  1 x No. of Animals
    Goat  ½ x No. of Goats

E  Poultry
    (i) For household purpose  =  1
    (ii) For commercial purpose.
        Small Scale  =  2
        Large Scale  =  3

F  Fisheries
    Small Scale  =  1
Large Scale    =    2

The scores of A, B, C, D and E are to be added to get a final score on item No. 25. However, the total raw scores are also additive for all the items.

Reliability of the scale

Coefficient of reliability was calculated by test-retest method. The coefficient of reliability was 0.653 and 0.944. For internal consistency Cronbach alpha was found to be 0.791.

Validity of scale

Validity of the questionnaire was measured by the author of the questionnaire.

Administration of questionnaire

The respondents were consulted personally and their sincere co-operation was solicited. The scholar visited different educational institutions which are affiliated to Mangalore University in Udupi, Mangalore and Kodagu districts and collected data from sports participants of Mangalore University Inter-collegiate tournaments.

Before the administration of the tests the scholar personally met the principal or the physical director of the particular college and took permission to collect the data from their respective students. The respondents were called for the common place in groups when they were not busy and had enough time to spare for testing. Necessary instructions were given to the respondents before the administration for the tests which include the purpose of the study and the procedure for answering the questions. The scholar motivated the student respondents to respond truly.
Apart from this, the scholar also visited different venues where the inter-collegiate
tournaments were held and collected the data.

Scoring procedure and questionnaire given in the appendix.

**Statistical techniques used**

The data was analyzed by applying the descriptive statistic i.e. Mean, Standard Deviation, t-test to assess and compare the specific personality and socio economic status of sports participants of Mangalore university Inter collegiate competitions. The data was analyzed by SPSS.
CHAPTER- IV

ANALYSIS AND INTERPRETATION OF DATA